

DERWENT- 1994-270641  
ACC-NO:

DERWENT- 199433  
WEEK:

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TITLE: Sintered hard alloys used as cutting tools - contains tungsten carbide, titanium niobium carbonitride or zirconium niobium carbonitride, tungsten and cobalt

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PATENT-ASSIGNEE: METALLOKERAMIKA CONSTR TECHN BUR[METAR]

PRIORITY-DATA: 1991SU-4944693 (June 26, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RU 2007491 C1	February 15, 1994	N/A	004	C22C 029/02

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
RU 2007491C1	N/A	1991SU-4944693	June 26, 1991

INT-CL (IPC): C22C029/02

ABSTRACTED-PUB-NO: RU 2007491C

BASIC-ABSTRACT:

These alloys contains (vol.%) : 38.2-64.5 WC, 21.5-38.2 of a refractory metal carbonitride (i.e., Nb), 1.3-3.4 W and Co the remainder. The alloys are novel in that the refractory metal carbonitride may be a Ti-Nb carbonitride having a compsn. corresponding to  $Ti_{1-x}Nb_xCo_{0.5}Nb_{0.5}$  or a Zr-Nb carbonitride having a compsn. corresponding to  $Zr_{1-x}Nb_xCo_{0.5}Nb_{0.5}$  where  $X = 0.2-0.3$ . Under these conditions, the ratio of the vol. contents of carbonitride to WC is 1:(1-3), and the same ratio for the W and carbonitride is equal to 0.06-0.09.

USE - Is used in cutting tool mfr.

ADVANTAGE - A sintered hard alloy is obtd. that has improved cutting durability.

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: L02 M26